St. Paul

No. 2.

Return to

FREDERICK W. TRUE

U. S. FISH COMMISSION

WASHINGTON, D. C.

(no 8) 2.52 — 2.58 ; (no 4) 3.30 — 3.36 ;

(no 3) 3.53 — 3.57 ; (no 2) 4.00 — 4.04 ;

(no. 8) 4.01 — 4.08 ;

Ketawe rookery. July 17. 1895
10.30 AM Cloudy. Warmish.

Family No. 2 has now about 76 cows - The next family which is on the neck has 8 cows.

The family immediately under me (at the cairn) has 28 cows, the small one next North has 6 cows + 2 pups; it has three cows when I last saw it. Over the rocky island the bull is lying down + 3 wet cows are in the north side He does not ~~does~~ pay any attention to them + I do not know that they are his - There are no bulls inside on the rocky point from this station. Yes, there is one -

Over on the point to the North a cow got in the pool of water but the bull drove her out presently & is now sitting in it himself — He comes out quite wet —

A youngish bull has three cows right down at the water's edge — The old bull just above him attacked him & drove him into the water to gather unto his of the cows. The latest cow the old bull took unto her his own harem. The young bull swam out a little & then turned back inshore. The stopper another cow coming down into the water but she escaped him —

(Station 14) Jam. no. 1, in the hollow, has now 16 cows & about 12 pups —

There is another bull with 2 cows on the rocky point,

which I could not see from the carriage —

There are seven bulls with-out cows now at the hillside here — One cow is under the cliff which has the carriage on top —

I saw some small game, three as I came along back to the house

2 cows	2 pups
2 "	4 "
36 "	30 "
4 "	4 "
30 "	22 "

St. Paul. July 20 1895.

Upper Zapadnie - ~~Started for~~ Returned from St. George - last night, arrived at Village Cove at 8 a.m. At 10 a.m. left with Townsend, Stejneger, Miller & Bogert & Mr. Dwight for Upper Zapadnie in boat. Townsend took photos. from stations 1 to 9 - Much difficulty found in locating the cairn & pinnacle marked on the map -

Here, as elsewhere there are numerous large cowless bulls at the back of the harems - In the photo: station No. 9, looking east over the rookery, there is a great deal of rough bare rock ~~not~~ only occupied at the most by a few stray bulls -

Mr. Townsend has not mops of 1893 or photos of 1894 above but is making the chart -

Saw 2 dead pups & 1 placenta pup -

1 Family with 6 cows & 12 pups
1 " " 5 " & 2 "

These are under Zapadnie Pt. proper. There are some 4 families here all together. At the point is a group of bachelors

~~West~~ West of the ravine on the rookery one of the bulls furthest up at the back has one cow -

Lower Zapadnie - Afternoon. Townsend is photographing at photo. Sta. No 8 a & 8.

(A good view is obtainable of the rookeries from the water.

(why not take a set of photos from there?)

There is a yellow grass area back of the rookery along here as wide as the rookery itself - Between the yellow grass & the barrens is a bare rock area equal & exceeding the other two in width -

Another photo is taken from near Station 8 looking East & then down at station no. 7 or rather about 50 ft. west of the same. One bull with 1 cow & 1 pup in the foreground -

About 100 bachelors hauled out ~~to~~ at the base of the hill, west of Sta. no. 7 -

There is a row of bulls in the water along the front of the hill rookery & nearly every one of them has 2 or 3 cows - Some are at least 50 ft. out -

I saw a bull copulate here in the water. Later I saw a bull haul in the water copulate with a cow whose hind half was also in the water and force parts on a rocks in the wash -

Between times Townsend & I saw Hair a younger bull copulate with a small cow in the water - They rolled about a good deal the cow underneath as usual & both cow & bull sometimes with heads under

water - At times the cow floated at an angle with the bull, their hind parts being close together - They kept up the process for several minutes & there could be no doubt that they were copulating - This cow & bull came up on the rocks at the water's edge afterwards & the cow did not seem entirely satisfied - The water in which the pair were copulating was shallow, so that the bull if sitting on the bottom had his head above water Nevertheless while engaged they appear to be floating entirely - The cow had her hind flippers turned up and the bull pressed his fore flippers against them

Saw a bull & several pups on snow -

The cows seem to be larger in the water, there are large pods of pups without cows -

The pups are playing in the water at the edge of the shore -

Saw one pup playing with a large piece of seaweed -

St. Paul - Southwest Bays
July 19. 1895.

(Examn. Juds in Gorki)

Killed	Rejected
20	17
15	32
17	29
12	40
9	24
13	28
17	31
16	36
11	19
21	29
12	28
14	33
10	27
19	36
22	31
15	29
14	22
19	54
20	34
15	31
9	53
11	41
7	30
11	30
8	

Killed = 31%

(These are pods taken at random; is not of course the whole catch)

(from Mr. Judge's book)

St. Paul - N. E. Point

July 8, 1895

Kills	Rejected Large	Rejected Small
15	3	43
19	2	39
16	1	17
9	0	30
13	0	24
16	0	37
15	1	24
16	2	15
10	1	16
11	2	16
13	0	17
12	2	14
17	2	12
10	0	12
18	4	30
14	1	31
8	1	10
12	3	18
10	3	24
11	1	24
7	0	23
14	3	18
286	42	494

42
494
536
286
822) 4940 (60. + %
4932
800

St Paul, West side N. E. Point

July 9, 1895.

Kills	Rejected Too Large	Rejected Too Small
9	4	24
13	6	22
15	5	27
12	6	46
15	3	12
8	3	28
6	8	20
8	4	33
12	0	30
16	4	20
12	0	23
5	3	19
9	4	17
7	0	31
6	1	26
2	1	27
6	6	12
5	5	22
11	7	18
12	3	31
12	6	28
8	5	26
209	84	542

542
626)
209)
835) 5420 (65. —
5010
4100
4175

Seals killed season of 1895

St Paul

May 27	Watchman N. E. Point	6	{Food Large young
" 28	Reef rookery	79	{ do.
June 1	Watchman N. E. Pt.	3	do.
" 4	Reef rookery	76	{Food 2 rejected
" 8	Watchman N. E. Pt.	3	Food
" 13	Polster rookery	184	Skins
" 16	Watchman N. E. Pt.	2	"
" 20	N. E. Pt. rookeries	1961	{4 " rejected
" 24	Reef rookery	1548	{5 " rejected
" 26	Halfway Pt.	575	{8 " rejected
July 1	English Bay	751	{6 " reject.
" 2	Zapadnie	861	{6 " reject
" 3	Lukannon	364	{7 " reject.
" 9	N. E. Point	960	{16 " reject.
" 10	do.	431	{6 " reject.
" 15	Reef rookery	1138	{10 " reject
" 17	Halfway Pt.	324	{5 " rejected
" 19	Zapadnie	834	{8 " reject.
	{The rejected skins were "under size" except one which was "stage".}		
July 22	N. E. Point	827	{5 rejected

"Dec 31. 1894"

During the calendar year 1894 were killed on St. Paul for food & for skins 13,298 seals

---

Pods killed & rejected
Halfway Pt. July 17, 1895

Killed	Rejected Large	Rejected Small
16	12	12
22	20	16
12	6	7
19	2	23
9	3	33
17	3	25
15	12	16
13	8	10
7	7	16
12	3	38
7	1	17
15	1	29
8	9	40
13	4	31

(over)

(Continued)

Kills	Recruits Large	Quake
13	9	19
8	7	26
13	8	17
14	9	27
8	3	31
9	3	34

Kills = 29% of total

4

Kelawie July 22 1895

Rainy

Sam 710. | Lan 19 cows &
Sam no 2. 40 cows. Pups in
excellent condition

Lukannon, same date, 1895:
July 22nd

Went out to Lukannon
this morning in the rain to
see how the seals stood the
weather. They did not appear
to enjoy the rain. Were mostly
sitting up mooing about, shaking
themselves from time to time.
The rookery looked dreary enough
with its wet rocks and wet
slippery soil. The handsome
colors of the seals when dry
had disappeared & all were
of a dull, dusky brownish appearance

the old bulls showing more ~~black~~ brown. The pups were like little black pigs, their wet hair hanging in tufts & usually parted along the spine, showing the skin.

The cows have gone to sea in large numbers. Many old bulls are sitting in their places, surrounded only by pups, & the majority have only five or six cows.

Saw only one copulation & that a peculiar one. The bull was interrupted at the outset by a cow straying away. He went back to the same female again however, but could not get any satisfaction. He mounted her three more or four times in all, before

he was satisfied. The cow remained in one place, as if expecting the bull to come back, - which he did -

The pups are back to the back limit of the covering.

There were none at the water's edge this morning, but many were floundering about in the little pools made by the rain. They were a dirty & sad looking lot.

There is a large number of bachelors on the Rookery ground, & especially on the part known as the Reef. They seemed to be enjoying life.

I saw two or three bulls sitting in the water

in front of the colony as they were at Zapadnie the other day.

The seals are close up to the base of the three grass-covered knobs at the middle of Lukanin & there was a harem on top of the West one.

Some of the cows & pups were trying to keep dry by lying close under the lees of the knobs & under boulders.

There is much individuality about the voices of the various seals. There was an old young sea bull this morning with a high thin voice like a cow. The attempts

of the younger bulls to roar like the old ones are quite comical -

A number of younger bulls were climbing about on the lower end of the rookery without much disturbance by the big bulls

At Kelaire the desolate appearance on account of the departure ~~of~~ of cows is very striking. The pups are crawling about everywhere. Most of the families are reduced to small proportions - Nevertheless some of the small ones have more than when I last saw them

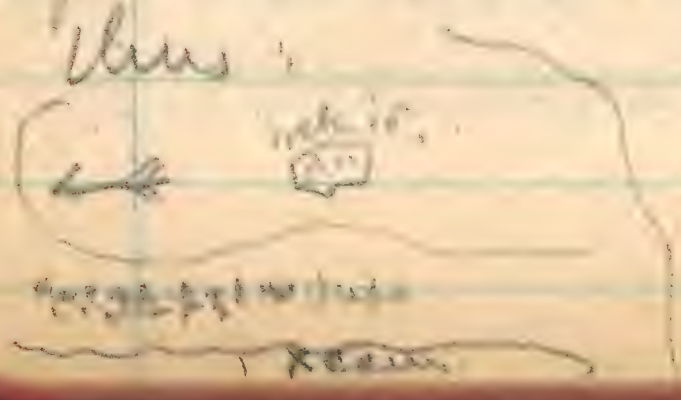
Saw no dead pups,

placenta pups & bulls.

As at Sukanum the pups are back under the bluffs & a few cows are back with the younger bulls -

Kelaire July 23, 1895

At the Cairn North of Sta. 14, every thing has changed since yesterday. The two families below the cairn (not nos. 102) are broken up entirely & the pups which were lying under the bluff are spread out in a long line. Thus:



Jan. no. 2 is broken up +

the flat rock on which it lay is almost bare. There are some 20 cows below around the bull & some 12 more on the north margin of the rock.

Over to the West on the point the rock with the pool in it is deserted & the cows + pups have crawled back up the hillside to the line of the face of the cairn bluff.

(The bright red placenta)

Between old 14 & this cairn the ~~cows~~ cows have also crawled up on the hillside nearly to the top.

Cows have lined off in this manner —

I see 39 cows & about 400 pups together. This shows how the cows have gone out — In other places there are bunches of cows with no pups in & others the two mixed in about equal proportions —

Saw a pup come to its mother when she cried — The cow has come up wet. The pup wants to suck but has not been allowed to yet —

Farm No. 1 has 6 cows only —

The Lukannon Kolans rookeries in map of 1893

The back line of the rocks this year is practically the same as 1893 except ~~the~~ as follows: The hauling ground on now occupied runs along

the beach as far as on map, but not back inland in the left hand direction. The right-hand direction is all right.

The seals are not on the top of the middle & right hand of the 3 bluffs of Sukanum.

The tongue to the right of Sukanum hill is to be cut off.

On top of the bluff opposite the "horse-shoe" in Kalaniè there are practically no seals

The Kalaniè hauling ground is occupied much further back on the right of the 14½ than shown on the map.

The seals it should be remarked can not be properly enumerated as a band, but

rather as patches.

Saw ~~bout 100~~ remains of 1½ doz. or more pups of last year on top of the Sukanum 3 bluffs.

Saw a fresh dead pup on top of middle of Kalaniè

July 23rd 1895

Journeyed and myself left at 11 AM. for Polavina 4 M. E. Pt. Took in Potlatch en route. This rookery has changed much since I last saw it. The seals masses at the seashore have moved up to the hillside country a bit — The topography

of the map is poor & it is very difficult to locate the different points

Took lunch on the wagon moving on to Palouña – The afternoon foggy, not favorable for observation of Mt Townsend marking up the chart as well as possible – After Palouña we took little Palouña then went on to N. E. Point for the night

Cooked supper at N. E. Pt.

July 24, 1895

Started out of Cypress at N. E. Pt. at about 8 a.m. for the rookery Sail & foggy – Photographed the S.E. parts of the rookery with the Kodak for fear the regular plates could not be taken.

Found many ~~flocks~~ sea lions on the point & took numerous snaps at them with the Kodak, there were bulls cows & pups Pups dark brown – Bulls & cows bright buff on back when dry – ~~grayish~~ cafe-au-lait when wet

At noon the fog cleared & the afternoon was spent for photos. Took

all the regular photo. - but not always from exactly the same point as last year. Making the chart very difficult & is only relative to 1893 - The photos are excellent & when three years are compared the differences can be very clearly shown -

I could not note much that would not be better taken from the photos & charts.

The topography is very poor & uncertain & accurate results cannot be compared with

~~Dawson~~ Our ~~Log~~ Book Journal

Photographer left Port Arthur Arrived at St. Paul at 8.30 PM.

Record of seals killed & rejected from pods. (Mr Judge) M. E. Point, July 22d, 1895.

Killed	Rejected
19	48
14	37
9	33
11	28
12	33
21	27
6	36
12	35
14	39
9	44
11	33
10	40
4	48
13	31
10	34
8	31
10	30
24	26
16	37
15	28
22	36
270	734

270
734
1004

1004) 2700 (2.7
2008
6920

The rejects [illegible] accurately very large & small crabs - might be larger

July 25th 1895

Rainy morning with showy SE wind. Got the above figures from Mr. Judge & afterwards went down opposite the Lagoon rookery to look at it.

The seals appear to be higher up on the slope than hitherto. The outlines of numerous cows are visible on the sky line.

Counted 88 bulls which appeared to have cows near them. The distance is so great however all the seals sitting ups on account of the rain.

This afternoon went to Lukannon & Kelauea to see what the seals were doing in the rain & storm. At Kelauea the wind was blowing direct on shore & a magnificent surf running. All the features seen at Lukannon in the rain of a few days ago were repeated at Kelauea. Saw no copulating. The bulls & cows were nearly all sitting ups. ~~From Kelauea to~~ Sta. 14 From the point between Kelauea & Lukannon to Sta. 14 ~~the~~ changes in the disposition of the seals are still going on. Sam. no. 2 is scattered & disunited. About a score of cows were standing in a scattered manner around the bull. From the rock upward the

cows are pretty evenly distributed up the hillside just south of the cairn, almost up to the top & all the bulls there, except two youngish ones at the very top have some cows. Off toward the point the seals have again spread somewhat over the rocks and the pool in it, but they are also high up on the slope behind.

The back bulls for the most all have cows & it would seem therefore that their waiting was not in vain. Should they not be regarded as marking the limits of the rookeries, rather than the harems which are so much more distinct earlier in the season? Townsend's system of marking charts takes the earlier disposition of seals only into account, as I understand it. ~~He wants~~ When he found that the last rain had caused the seals to move back or "spread" he waited to mark the charts ~~from~~ accordg to disposition observed some days earlier & in some instances I think he did so — Do the bulls go back with the cows when the "spreading" takes place, or do the cows only move back to the upper bulls leaving the lower bulls to

hind?

I saw a youngish upper bull siege a pup out of an upper pot in his teeth and carry it up the slope. He dropped it several times but picked it up again. The pup presently bit at the bull, & when the latter was not giving attention ran down the hill again - I saw another pup near this same bull but under a rock. A third pup walked up the hillside

Saw a bull put his fore flipper down the absolute by vertical side of a large boulder & jump down - Another bull was standing almost upright, & with his

flipper over the edge of a rock. They assume numbers of peculiar attitudes. When lolly they commonly turn three hind part of their body down & the right or left hind flipper, thus)

The seals were playing in the highest surf among the rocks and sustained no injury, though it seemed at times as if they must be dashed to pieces -

Saw a good deal of what appeared to be pairs of male & female together in the water but could not detect any copulation - At Sutcaum the

seals were hardly as much away from the water's edge as they were the last year day but they were up with the highest gulls —

Capt Drake went to Polavina yesterday & was there all day — This morning he & Mr. Crowley went to U. E. point. He could hardly do any work in this sand. The Esquimaux is also busy in making Cove in shape, I suppose by Lt. Scott.

Johnson went to Yakutat this morning & returned about dinner time —

Mr. Miller photographer Tolstoi yesterday —

It seems that Col. Murray, formerly Treasury Agent is making an inspection of the workings for the Treasury — That accounts for his remaining here so long —

The two lakes shown on the map of N. E. Point on the east side near the point were dried up yesterday.

July 26 - 1895

Tolstoi

Went down on the sand & Journal & Lt. Miller photographed on working — Miller working — Journal putting white crosses on rock at back line of working

Col. Murray goes to Zapadnee -

Watches the bachelors. Saw
a 4 or 5 yr old mounted another
bachelor of about the same
age

Saw one bachelor dragging his
hind flippers as you do when
swimming

Found a dead pup high
up at back of rookery

On rookery counted 60
pups + 25 cows together. Again,
30 cows + 66 pups.

Saw a native fresh placenta -
Haven't seen any copulating
No pups at the water
edge this morning -

July 27th 1895

Seals from Ukamman killed at
village for food -

Killed	Rejected	Large
10 11 12 } = 21	61	1
	39	12
13	32	5
13	28	8
18	28	5
12	24	1
10	28	0
10	38	0
9	49	3
13	36	1
13	~~33~~	2
9	53	2
128	416	
	128	
	544	

544 | 1280 | 23.5 %
1088
1920
1632
2880

Saw a white bear.

Rejected pods (Those killed not counted)

% 100 Large	Two Normals	
5	45	= 50
4	33	= 37
8	32	= 40
5	32	= 37
6 ~~8~~	68	= 74
5 ~~4~~ ~~3~~	41 ~~5~~	= 46
3	46	= 49
9	53	= 62
5	51	= 56
4	31	= 35
2	63	= 65

This page & the preceding relate to a killing at the village for food, this morning, July 24th. The seals were driven from Kalsamion sometime this morning, & the killing began about 8.30 a.m. I went back on the line of the drive & found one large & two small explanted seals near the killing ground. These afterwards joined the drive again. They were only two & three hundred yards from the killing ground —

Mr. Crowley, Capt. Drake, Mr. Louisou, Broun, Redpath, Judge & myself were present at the killing — Louisou & Broun did not see the first part. Judge came late. Broun remained at a part of the time only —

I counted 11 pods as above & got 23½% of as the proportion ~~of~~ killed. This is probably a high estimate, as the later pods contained a very large number of ejected.

The seals were practicable

small - Crowley says Redpath calls the Lukannon beach grounds "Kindergarten" on account of the large proportion of young seals -

The killing presented the usual features. I did not think it was as well managed as some -

The killers seemed sleepy - Crowley said the large proportion of young seals made the kill a different one & this seemed true. They piled up on each other when the pods were driven up, sometimes four deep & were very slow in leaving after the others were killed.

Jews were exhausting after rejecting. One died & the other was killed. I heard of a third - saw one rejected with bloody nose -

Capt Drake was impressed by the piling up & struggling & asked me if I didn't think this was the worst feature of the drive.

Looked over a hundred dead seals & found all males -

When rejected, the seals turned over slowly to the lagoon entrance - were soon in the water - They began dolphin-jumps at once & went south to the south hill out of sight -

I did not see that any remained about the lagoon rookery -

A few lay down a good deal in crossing the beach but finally got in the water, - they were both large & small ones which

more as exhausted. They did not begin dolphin jumps as the majority did.

Lukannon

Townsend went around to see the seals haul up, as he states it. I do not have much faith in their going around them at once, if at all.

Capt. Drake is going to Unalaska to look after the sealing fleet. I understood he would go this morning, but the surf was high & he did not go. I does him, on his enquiry that if Prentiss remained in St George a few days longer it would be no great matter. He will leave a note for some one of the Revenue Marine cutters to bring him off.

Prentiss back. If the Albatross does not get back in time.

A considerable number of bachelors when killed this morning voided a yellow excrement. There was more of it this morning, it seems to me, but I could not see that it differed in kind from that hitherto observed. Mr. Gourley made the same remark. Mr. Brown remarked that either the bachelors had the power of relaxing excrement long, or had just come in from or had been out to feed recently.

July 27 1895

This afternoon to the lane. About 120 bachelors south of the pound, a few of the back ones by the road - The cows are up to the usual fifty hundredweights all along - Saw one copulation in 2 hours & that doubtful, because bull was slipping. Just twice. This was an upper bull. Three other upper bulls at eta 14 are comfortably quiet, the cows but no copulation yet.

Large number of cows must be at rest - Just over 50 pairs is no evidence of rest.

Saw a cow late when her companion was nursing back at another pair that appeared low.

The upper pairs keep down the slipper bulls.

Farm no. 1 has a varying number of cows - just over three and 60 - The farm is wide. Farm no. 2 has 22 cows - The next upper has 13 -

There are not above 90 cows in this holding between eta 14 & the cairn -

At Lukannon saw two mare copulations in one case the bull mounted the mare four times & did not seem satisfied at last. He seemed reluctant to begin.

Herds of pups playing at the water's edge.

Tourists report no more baches on the land ground than this morning = about 200 —

July 28. 1895 Sunday
Rainy & foggy day —

In the afternoon at 3 o'clock to Kelpie — Counted 150 pups to 37 cows under the cannon bank & pts. 14, which shows to what extent the cows have gone out, whether to feed or not I do not know, but they are gone. A dozen or two seals, presumably cows playing in the surf off onto this point.

I see one pup with a very fresh looking placenta attached, — must be just born.

Fam. no. 2 is entirely broken up and the great flat rock on which it lay is bare. The bull with about 5 cows is lying on the edge —

The cows remaining ~~have~~ are as high up as the very top of the hillside both north & south of the cannon where I am sitting.

The cows & pups seek out all the dry spots in the cliffs & cram themselves into them. Strange that such aquatic creatures should so dislike the rain —

The whole rookery here looks deserted — The pups are getting large &

run about freely. The cows
still on land mostly have
their pups sleeping with them
or nursing.

July 29. 1895

Took a look a Zoloft hauling
ground from the Northeast.
Bachelors lying close up into
the grass. One old fellow
sleeping actually in the high
grass, which rose up all around
him. The hauling ground appears
to be well covered (several
hundred) except about the
bluff on the east side.

Found a dead fur-seal
about 6 yrs. old on the rocks
under village site.

July 30. 1895.

Fair, warm day.
Afternoon stopped at Kashevaroff
Redoubt on way from Polovina.
Counted 69 cows to 179 pups,
which shows a large proportion
of cows in the water. A good
many playing in water in front
or rookeries, others presumably
at sea.
All day to-day in the sun.
Mostly asleep. No copulation going
on. Several youngish bulls wandering
about in the vicinity of
fam. no. 2 & smelling cows. The
old bulls did not pay much
attention to these younger males,
but occasionally rose up & drove
them off. The cows are away
up to the top of the bluffs

Most of the bulls have a small number of cows around them — from 3 to 13 or 14. The pups are playing about, but none of them or near the water at this point.

On the Lukannon hauling-ground bachelors look scarce. A little bunch at the top of the hill & some playing in the water. Elsewhere scattered.

Between Lukannon & Rocky Pt. about 25 or 30 large bulls lying asleep on the sand; of these about 20 in one bunch & the rest scattered. These appear to be mostly old and worn out bulls. On shoving them up I found they were quite languid. One had almost lost his voice & his bellowing was feeble &

cowed. Two have the canines much worn. One had a swollen hind digit. All were much emaciated.

Saw 7 dead fur seals on the beach; 5 pups near Polaris rocks & 2 oldish bulls further south.

At Kekane hauling ground a line of bachelors extends back a long distance across the "yellow grass" area. These bachelors move about a good deal & occupy much territory during the season.

A Rocky Pt. the carcasses of the seals killed June 24 are black and oily & the hair comes out of the head skin, they are not rapidly decomposing.

July 31. 1895

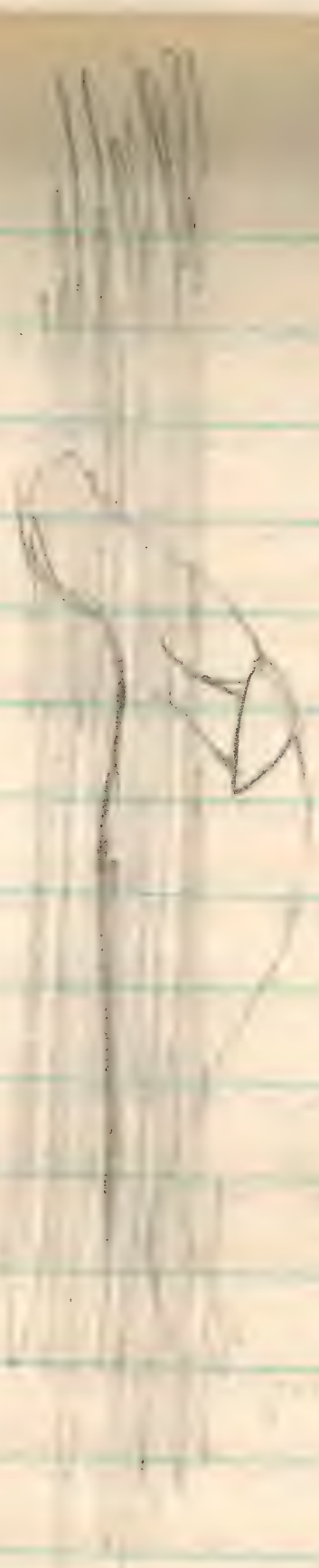
Lukannon

Saw a pup pick up some small pebbles ~~such~~ from the ground and swallow them.

Saw a cow with a white mark on the middle of her back. Ought to be easily identified.

Some pups are dusky brown on the belly with whitish only back of the flippers. Others, less in number, are whitish over the belly, & somewhat so on the throat, with very clear white between the flippers. Many have a white cloth about the corners of the mouth.

The cows are gray on the throat, light buff on the breast gray between the flippers, orange-buff on the belly. Do some the



breast color is exceedingly pale, almost pure white & the bull, color is buff. These are very gray, fresh-looking cows -

I see a bull copulating - This is one of the heaviest bulls

Some bulls are grayish all over. Others are ochre-brown with buff shoulders. Others are umber brown with ochre-yellow shoulders Some are dusky all over. Others are dusky with gray shoulders with a dark median line.

The sun has come out and there is a rapid movement of cows toward the water; this is sudden & rises up the herds to attempt to prevent their going

I see a pup with a white mark on his back.

Some pups play at the water's edge among the rocks, but they are not very boisterous

At Kelaire one copulation. The cows are largely off the grounds. The great flat rock occupied by Tam. no 2 is bare, only 2 cows lying on it & the bull with but 6 cows on the southwest edge.

There is a herd of 50 & more nearly backed up on the bull Mark & the cairn -

There are a couple of younger bulls wandering all over the rookery -

Aug 1st 1895.

Tuesday, Warm.

Drive from Zoltoi early this morning. Killing began at 5 A.M. Tools used of porpoise killed & rejected, as below. The usual scenes, crowding pulling up three & four deep, bloody noses, etc. The seals went off with the water from the rocky beach west of Zoltoi. I watched them from the elevation above Zoltoi for about an hour. When they first reached the water they began dolphin-jumping toward the end of the Reef, but all or nearly all turned landward & landed down at Sorochka Bay or circled round & came back near at Zoltoi. I suppose this is the last killing.

Made some anatomical notes.

8

Aug 1. 1895

Killed	Rejected	Sex
18	65	21 ♀
10	32	7
11	32	4
11	35	3
10	50	4 (1 ♂)
15	56	8
4	35	6
4	31	9
9	37	5
7	33	5
104	396	

104
396
500) 39600 (79.2
3500
4600
4500
1000

Aug 1st (continued)

Examined a considerable number of stomachs, but found only one with a few decomposed fish-bones in it.

Aug 25th 1895.

Went to Lukannon & Kelanie trying to find an old bull suitable for wounding, but could not find one in a favorable position until last 10 days. Saw two copulations one on Lukannon & one on Kelanie. Counted 23 dead pups between Sta. 14 in Kelanie & Lukannon point. They were up on the higher grounds of the rookery, - none in the water. Saw & killed a bull with festered fore-flippers. Saw a young bull hopping on three legs, the left fore-flipper being useless & held up.

Bachelors in considerable numbers wandering over the rookery near Lukannon pt. Saw one of the old breeding bulls go down to the water & get into it. Saw a bachelor carrying a pup. Some pups down at the lagoon but none swimming. Saw one quite fresh placenta.

Aug. 3rd 1895.

Bright. Sun shining.

Went to the Reef - Bolton full of Bachelors, but rather high up off the sand on the west side.

When I returned they were gone from the sand ridge even on the east side, which seems a little odd. A great many were under the cliffs on the west side - I passed along the beach coming & scarcely disturbed a half dozen.

I wanted particularly this morning to see how large a number of breeding bulls were hanging on the outskirts of the breeding grounds, ~~but~~ & how where the matter could be satisfactorily examined at the nearest points at the end of the reef) there were very few indeed.

On the great west hill-slope there were rather more, but as squads of Bachelors were lying about there the observable was not as satisfactory - Of course under the cliff there is no chance for unattached bulls except at the water's edge.

Bachelors are lying behind the rampants on the west side all along the Reef in bunches, almost down to the last cairn. On the low level at the end of the Reef the Bachelors were lying in their peaceful Emissions, east & west, & between them was a greensward area of large extent.

Another matter to which

I paid special attention was the dead pups. I saw only a few of these - perhaps half a dozen in all & these up high -

Saw one copulation -

Seals all sleeping a great deal this morning - Few pups down at the water

Saw a large bachelor sleeping on the top of a big rock wake up and void a large amount of urine & rather watery yellow excrement -

Aug 5. 1895

Kelanie -

Took Booker soils

Counted one family of 9 cows + 15 pups -

One family of 9 cows + 25 pups

Saw pups swimming in water free of the rocks -

Saw a bachelor mount a pup -

One group of about 10 cows without a bull, but two bachelors wandering about among them -

At Sta 14 counted 11 cows & 150 pups the families here are rather broken up Fam. no 1 has only 1 cow. Fam. no. 2 seems to have united with the neck family. There are about 15 cows around on the edge of the great rock - A young bull has located himself on the south end of the rock -

Saw specimen on the rotten neck -

List of Stations on Kelaart from which samples of soil were taken Aug 5, 1895. (See chart for location of stations).

No. 1. Margin of cliff.
2. 50 feet inland.
3. 100 feet "
4. 150 feet "
5. 200 feet " (not taken; same as no. 4)
6. 250 feet inland.

---

7. Edge of rookery.
8. 50 feet inland.
9. 100 feet "
10. 150 feet "

In location including sta. 7 to 10, the first station (no. 7) was taken immediately behind the uppermost harem.

In location including sta. 1 to 6, the first is at the margin of a cliff below against which the harems were located.

There were no seals on the grounds from which the soils were taken. It is not necessary to suppose that these grounds were rookery-grounds. Very probably one or both were landing-grounds a short time in the immediate past, as bands of seals roam about at the back of this rookery still.

Aug. 6. 1895.

Cold rainy day. Wind from N.W. Went to Kalaue at 10 AM. Everything about Sta. 14 drenched with water. Cows more scattered than yesterday and many up under the shelter of the cavities in the cairn cliff, where there were none yesterday. Pups in about the same positions as yesterday, but rather higher up. Many down at the water's edge, & some swimming in the surf.

The wet pups show their brown under fur, rather than their skin as I have somewhere previously stated. Nearly every cow, - 2/3 of them at least, had their pup with them. Cows, bulls & pups were for the most part sitty with their noses up in the air on account of the rain. Curious & rather ludicrous attitude. Many pups suckling. Bulls smell of the cows to a small extent, but no copulation. No dead pups at the water line. Pups all look fat & healthy.

The bachelors were all about the cairn, so I did not go up there. Sat below the Sta. 14 hill till 11 o'clock & then went to Kukaunon.

At Kukaunon below the west bluff the rocks are almost bare. One bull in the midst of a pod of pups. Pups swimming - one quite far out. No copulation. One pup lying down with terrible wound at

base of right fore flipper - A dead cow & a dead, decomposing bull in view (the latter seen before). One or two dead pups, well back from the water - A good many young bulls have taken possession of a few females, especially near the water, but their possession is of short duration. Bachelors wandering about back of the rookeries - the main mass of bachelors lying well to the east to-day -

On the sand of Lukannon bay some bulls hauled out but not more than some days ago -

At Kelanie bay & around the bachelors have extended an angle well back into the

grass & some are wandering for further on the grass; others at close up to the great rock (Sta. 14½). Beyond southward the bachelors extend scattered to the rocky ledge, on the latter quite a number are sleeping.

On Lukannon one some pups playing with red seaweed -

Many seals in the water in front of the rookeries, but none far out -

The majority of pups very large, but a few quite small ones among them, - showing a difference in date of birth -

Aug 9. 1895.

Clear. Boat to Kalaiē. The rookery looks broken up, so many cows are away. At station no. 14 fam. 1 has 5 cows; fam. 2 has about 13 cows. The next fam. above has only 3 cows. Bachelors are wandering over the rookery. The flat rock is bare except on the outer edge. I think fam. 3 has a different bull from the original one. It is probable that the Neck family which is entirely gone, united with the remnant of fam. 2. & the Neck & bull. prevail over the whole.

Pups seeming in great numbers. No new dead pups — Saw 2 females nurse them

Pups out of the pods & think there is no doubt they know their own pups —

No copulation & no new dead pups. Pups very large & fat.

Bachelors on the Kalaiē pt. are lying on the grass in a long angle. On the sta. 14 point they were numerous, so that I could not go up there this time —

Aug. 11th 1895.

Took a look at the bachelors on Zoltin sound - Counted & estimated the number to be about 1000 - Most asleep. All sizes - Some draggy kind flippers. This seems to be a favorite movement on the part where hauling is difficult - Saw "Otary" also -

Aug. 12, 1895
Kelane. Sta. 14. Clear sunny day.

70 cows & 400 pups - Routes broke during the. Sun. 901. has short 2 cows. Sun. 2 has 12 cows. There are a few cows again on the rock this morning. On the rocky pts & rocky islets are a considerable number of cows with pups - The upper platform on the bulls are deserted - There are no bulls above the line of the base of the cañon cliffs. The cows except a few in crevices of the bluffs -

The same is true of the bulls on the north of the cañon - all off -

Saw a cow with a young pup -

There are only 4 bulls

from the ~~Mouth~~ Neck upward
this morning, No 3. Bull no. 1,
bull no. 2. One considerably
higher up and one over to
the east of the camp-bluff.
* 35 Bachelors lying on top
of the camp-bluff this
morning

At the Lukannon sands there
are 400 bachelors. This number
just about fills up the sand
from the edge of the ~~water~~ hillside
channel-ground to the rocky pt.
-low at Lukannon Bay. On the
hillside are about 500 or 600
more, but they can not be
counted.

When I came up they
were practically all lying down
asleep. ? There was [illegible]

a sound of bears -
There are none on the
water opposite

Aug 13. 1895

Went over to Lukannon Bay, to
get a bull - seal. There were
about 500 bachelors on the
beach at first and we had
trouble finding room for the
bulls to

Got a Bull, as follows

	11 ± 10/10
Total length to end of hind flippers	9.0
" " " " face	7.2
Breadth between outstretched fore flippers	6.3
Fore flippers to end of " "	2.95
Breadth of head " "	2.0
" of fore flippers at base	0.65
Nose to head of [illegible] (white on back)	2.8

(cont.)

	Ft.	$\frac{Ft}{10}$
Nose to eye		0.4
" " ear		0.8
" - margin of lip		0.175 Exact
Length of mouth		0.325
Ext. at eyes (transverse)		1.55
" behind ear (")		2.25
Shoulder girth		5.3
Girth in front of fore flippers		2.0
Head of tibia head of femur } flippers		3.1
Girth at head of tibia		3.4

Aug 14. 1895

Watches 5 to 10 & 11 Judge slowly near ice-house lake killing-ground. The hauling-ground of Fort Lawrence was in plain sight & wind blowing toward it. The hunters shot seven or eight

times & I saw a slight movement on the part of the seals, but nothing that could be called a genuine alarm or panic

Aug 15, 1895.

Boat to Tolstoi. This rookery has changed greatly since I last saw it. The cows have climbed up beyond Townsend's recent marks in several places & one group (to be counted again presently) was up at the great rock at the top of the hillside.

The bachelors have almost deserted the hauling-ground immediately above the rookery on the north. There were only 50 there to-day. On the hillside & beyond were 330 more. I

counter clam all.

The pups were either near the water or swimming in it, only a small proportion being on the Rookeries. The cows are out in great numbers.

The whole appearance of the rookery is broken and confused. The great wedges of cows of the north end of the rookery have gone entirely but there is still one considerable bunch there.

One thing that puzzled me was the composition of some of the upper harems. These were presided over by young bulls & were made up of both cows and bachelors. There are certainly both males &

females in these groups, but no pups. The presiding bull snapped & roared at the cows as usual but did not appear to have very good control of them & stopped now & then to chase a bachelor off. It looked as if the "half-bulls" were playing at holding harems & were not sufficiently in earnest to keep out the bachelors.

The family mentioned above was such a one. Our P. was almost near enough to touch some of its members & decided that part were males & part females. There was one pup in this lot when I first saw it.

The absence of cows is the striking feature now.

I counted 70 dead pups at the north end of the rookery & saw about 25 more a little to the south, - about 100 in all. This will perhaps no more than should be present without reference to the kill of cows at sea, considering the great mass of cows locked here during the season. The living pups seem fat and shiny - I did not see any dead ones on the land-side part of the rookery - Watched seals coming from Jessop Cliffs & saw that the used their fore flippers as a hand as it were, making an ingress backwards amidst

such them.

On the Lagoon side the Jadelas has started a path through the grass down to the water obliquely with the west limit of the land-ground. There are several similar Jadelas in this rookery, but hard to count.

The harems have come over the crest of the reef especially east end, & quantities of pups are swimming on the Lagoon at that end of the rookery - I met & approached them in a boat but could not get near enough to touch them -

Aug. 16. 1895.

Cold stormy day. Rain & wind from East. Looked at beaches on Bolinas & saw that a fair proportion of them were on Sand, Coal Mound, on the bluffs side - few on the sand -

Over at the Rec little clouds of steam hung over the area on the bluff & it at are accumulations of seals, - give a very curious appearance.

Went to Kelaine. Surf very high. Seals all high up, even to the top of the bluff at Rin. 14. The bulls of fam. nos. 102 have left. The upper ones are still there & there are a few younger ones but even mi -

Saw 60 cows & 25 pups on one place & 100 cows & 25 pups in another. Pups large & down at the water but more swimming - too rough.

Beaches by Coal about the top of Sta. 14 & also on the cairn - & off.

Pups in good fat condition No new dead ones.

Aug. 22d - 1895.

Went sketching at Black Bluff peaks & found the pups swimming there in considerable numbers & landing on the rocks about the peaks. They were not frightened until I got within a few feet of them. They swim well now & bolt

a jump or plum-fashion like the old ones.

Yesterday D W P & I killed a cow seal & pup on the Kelane rookery. (Notes on them are in the rat history note-book.) The noise of the rifle (shot 3 times) did not disturb the seals and we had to go in among the pups to get them to move. The pup we killed had gray on the breast.

Aug 23. 1895

Rain

Albatros came in this morning. Went to Reef rookery with Capt. Drake Mr. Townsend & Mr Cooley Crossed Fole's canon

& found there were 1000 to 1200 seals there - All sizes but many small ones - They were mostly on the hillside & in the slide on the East side & to the north of the path -

On the Reef everything broken up. Seals scattered practically evenly from the water up to the upper level.

Plenty of water & mud on the lower level. Pups well back. Quite a bunch at the N. W. corner of the lower level - Saw very few dead pups. The most of the pups seemed well nourished -

Townsend pointed out the area on the "parade" marked by four cairns which was

devoid of grass in 1891. Now at least half the area is grass ~~grown~~ covered.

Went to Kelaire in the afternoon. At sta. 14 fam. nos. 1+2 are entirely broken up. The flat rock is bare, except for 5 or 6 pups. Many pups down at the waters edge at the locality of fam. no. 1. & more Swimming - Bachelors & pups wandering all over the rookery - Counted 122 pups & 19 cows in one area -

There are now no large bulls on the Rookeries or anywhere here except one under cover - Black Bluff -

There are pups all the way up the top of the hillside -

Bachelors are wandering out to the rocky point but it is impossible to say whether the seals now there are cows or bachelors.

No new dead pups seen - Pups look in good condition - They are on the breeding ground

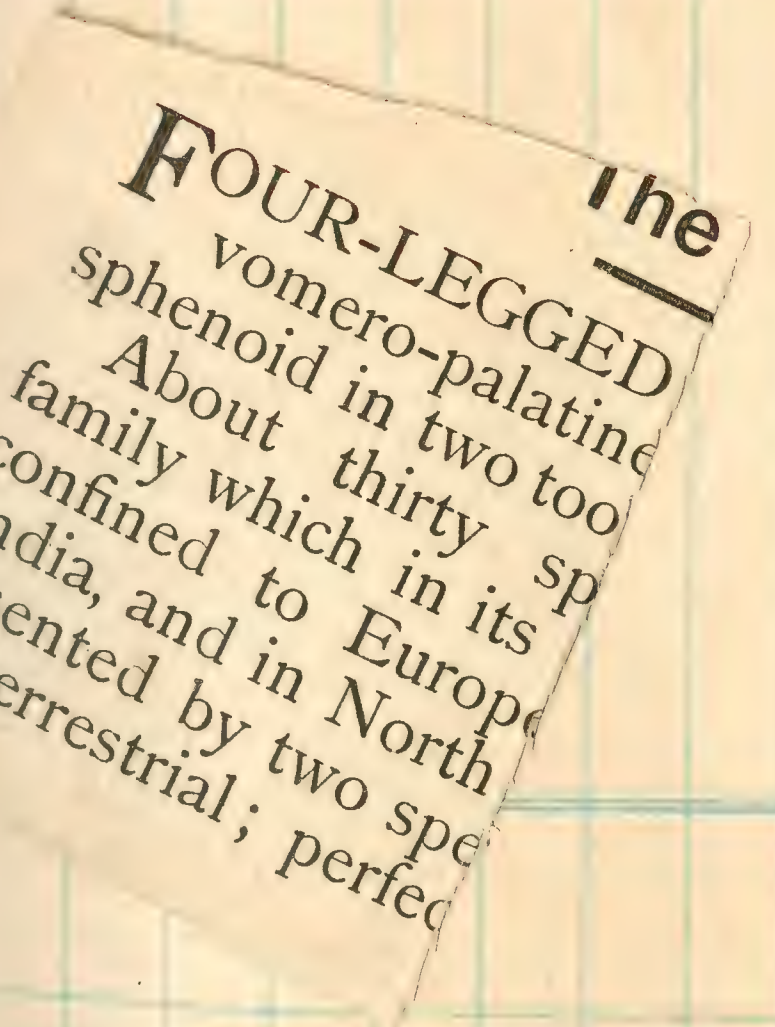
Went on board the Albatross at 5 P.M. & sailed about 7.30 P.M. Last sight was East Landry and Black Bluff -

Good bye, St. Paul!

Seal killings on
St. Paul Island. Some of these are probably already given in the earlier pages. I copied several to be sure I had them all.

		Total Killed	Rejected
July 15	Reef	1138	10
" 17.	Hasford Pt.	324	5
" 19.	Zapadnie	834	8
" 22.	N. E. Pt.	827	5
" 27	Lukanin	286	—
Aug 1.	Reef	185	—

Total for year 1895, beginning May 27 — 12,500 seals



The

FOUR-LEGGED
vomero-palatine
sphenoid in two too
About thirty sp
family which in its
confined to Europe
India, and in North
resented by two spe
or terrestrial; perfec

of life that the eye perceives but the sound of the seals on Katsie rookery comes plainly to the ear —

Back of the bare dull brown ground of the rookery the grass is low and green but it merges soon into the straw brown of the dead Elymus. All the distant hills & valleys are brown with dark green dots of sand patches —

A few huts out on the bare, sulphury-brown projecty- ridge of the bluff disappear again. A raven & a duck flies overhead - A bird hums by - Beyond the sulphury brown ridge a mass of scoria forms the top of the bluff, brick-red in color. The lichens on the curious pinnacled rock beyond are bright yellow-brown - & a cap of brown-green Elymus rests on it like a thatched roof.

Ja

July 13. 1895

At the top of Black Bluff. 3.30 P.M. - A clear beautiful day, warm in the sun but a cold breeze & thin I am wearing a winter overcoat & two pairs of drawers without discomfort. Looking off across the water I can see very distinctly the coast of St George & the Newfoundland peninsula upon it. The sea is perfectly quite or rather with the lightest ripples upon it & the slight surf on the beach some from the long rolling waves. The water is blue with a purplish tinge, except near shore where the rocks with yellowish-white incrustation lend to it a greenish hue. A kittiwake flies here & there & a few seals flop here and there are the only evidences

Holmes Skulls
St Paul Pt Alaska 1895

Greatest length	Greatest width of braincase
390 mm	320 mm
370	265

Teplitz

[Frederick W. True
U. S. Fish Commission
Washington, D. C.]

[1895]

June 26th on a drive from Rocky pt. I saw four (4) young foxes in one bunch, got out of the wagon and handled one, he was about the size of a half grown kitten, soft ~~[illegible]~~ mouse colored fur; a little further on I saw two other young foxes.

June 27th saw three (3) foxes full grown, on a walk from Northampton to N.E. Pt. I saw several schools of seals going southward, none going northward.

June 28th Cold & cloudy, no fog at 6:30 A.M. at N.E. Pt. Rookery - Sperit House On North shore, I only visited the extreme North point. At the small rookery where the whale skeleton is, there were twenty males of which number only two had harems with about ten females in one and only two in the other harem.

I saw only three fights while I was there.

There is no cover on the rookeries as far as I could see to the north east and none here.

One male made a landing without interference.

Saw one fox wandering about the rookery.

There are no pups in either harem as far as I could see.

There is one big grey bull seems to be the liveliest but he has no harem.

most of the bulls have harems have stations and some are asleep almost all are inactive.

There are a number of Harems near the water edge that I did not observe at first

In a third haven there were five cows with one [illegible] apiece nearly two or three days old.

There is one bull on a rock about one hundred yards out he has nine females on the rock (for there are three (3) in that bunch with no other bull on them)

Saw a small female bite at a bull who grabbed her by the neck and shook her then was repeated three times.

[There is a small but thickly settled rookery about three forth of a mile to the left of the skeleton with quite a number of bachelors. About the same distance to the right with few bulls and about two dozen bachelors.]

Dog [illegible] years [illegible] wandering about with no object.

A few seal swimming about but not trying to land.

One of the native bulls did a good deal of snorting. It looks very strange to see a seal double over his hind flipper and scratch himself.

There is a great variation in color of the bulls from one very light gray all over to a light chestnut brown.

a bull has taken possession of the second rock in the group of three.

There is a great deal of fighting among the females of one of the harems.

left the rookery at 8 a.m. on account of cold.

July 1st 95
Telegraph Hill.

Lagoon

On [redacted] side of rookery I found the nest of the Laysan Longspur with five young birds partly fledged, on the 27th near the sea level Mr. Tower found a nest containing one egg.

Three nests of the gray eared finch on the cliff of Black Bluff.

July 2nd saw first black breasted turnstone.

Found nest of Laysan Longspur with six eggs.

Collected one young (about two weeks old) of the Bristled Sandpiper.

Hunted for ducks meeting with but finding one pair about 20 birds.

The Pribilof sandpiper has a curious habit of extending one wing directly upward and holding it there for a minute. The male Lapland longspur has a habit of rising upward against the wind for about 50 ft. and then extending his wings and drifting to the ground singing all the way down.

July 6th walked from N.E. Point to village around the north shore.

Saw 6 foxes. At a fox hole I found a young fox with his entrails and one front leg gone, when I came upon it I heard a scurry and went to the place where I heard it the fox was out of sight before I got there but the dead young

had the appearance of being freshly torn open. I cut off the head and saved it,

On north shore, I found the nest of the Pribelof sandpiper containing 4 eggs.

Found nest of Lapland long spur with three eggs left it, as a clutch appears to be 5 or 6

Birds seen today.

1 guillemot (black)
2 paraquet auk
3 chookie (least auk)
4 chicki (Glaucous winged)
5 Black legged kittiwake
6 Red " "
7 Puffin (Horned)
8 Pribilof sandpiper
9 Longtailed duck
10 Duck setting on rocks along the beach. (Harlequin)

11 Lapland longspur
12 Rosy finch
13 snow bunting (Townsendi)
14 a gull I could not obtain and which I do not know (Bonepartes)
I saw the egg of the guillemot, very large brown mottled egg to far off to see much more.
15 Ring Plover (acg. semipalmatus)
16 Cormorant sp?, unknown.

July 8-1895

I examined the stomachs of two Prytiles sandpipers one contained about ten large whitish larvae, the second, the remains of numerous small black beetles; in both cases the stomach was well filled.

I found the nest of the Pybild sandpiper on the 6th of July it contained four eggs well advanced in incubation. I also found a young sandpiper (Pybild) which was about one week older than the (no. 73) one I took on the east shore on the the 2nd.

I have found the nest of the Lapland longspur as follows:—

No. 4 Set 13 on the 2nd of July six eggs incub. well begun.

No. 5 Set 14 on July 3rd six eggs incub. fresh. both nests were taken from the south east part of the Id. On July 1st I found on Telegraph hill near the top a nest of the Lapslongspur with five young partly fledged. I did not disturb it.

The first two nests were nearly on the sea level. The third some hundred feet up.

On the 6th of July I found the nest of a Lap. longspur on the north west shore near North hill, it contained three eggs probably fresh, which I left.

~~There seems to be a very great difference in the breeding of the birds this~~

July 9th 1895 I have had no chance to go out after phalaropes today, which I have been told, are arriving in quite large flocks.

July 16 1895

Started from the village at 2 A.M. to see a drive from the reef rookeries.

Seals seemed to attend the drive very well, few seemed tired.

A number were seen by Mr. Brown with shot wounds. I saw one which had the right hind flipper entirely cut off, the wound seemed partly healed, it did not affect his travelling, he kept up with the rest when turned away on account of undersize.

Thirty or forty of these turned away, when they enter the water, swim around quietly, and play. The ground over which the drive was made

was; on the whole very good
mostly sand or short grass, with
a rocky patch here + there.

Bugga
Fur seal.

Fur seal.
Bugga

Paraquet auk.

St. George Id. Alaska
July 21 1895

At 7.30 P.M. started from village with men to make a drive. Arrived at a small bunch of seals (bachelors) at 7.45 at ~~Sandy Beach~~ North Rookery: they were disturbed in this three minutes.

At. 7.10 P.M. another bunch was rounded up a few hundred yards on, this time about 100 females were set going toward the sea by the men getting close. I watched these females but none took to the water.

about five harems were stampeded and all was confusion, bulls rushing around trying to retain their cows, fighting with every bull

he could get near enough to, all keeping up an incessant noise.

At 8:45 PM. another round up was made at ~~Stockdale~~ Stott & few harems were disturbed. This bunch about equalled the other two together, Very few "over-size" seals were among the last bunch. Small bulls were numerous in all three bunches.

This bunch was driven through a lake to begin with then up a 50 ft. hill, rocky, then we hurried somewhat more than those driven at St. Paul.

The drivers do not seem to be so careful, while driving in reference to the gun wells from

of the seals. They are certainly not as good drivers as those at St. Paul.

Three bulls out out, up to 9:20 P.M.

After they got to the top of the hill, the stowed up some. The ground from the top of the hill for half a mile or more was little knobs, often of rocks covered with grass and weeds, it was rather rough

9:30 P.M. stopped for 15 min.

at 10:30 P.M. left the drive which got in to village ground at 5:30 A.M.

at 7:30 A.M. the killing started.

Only one seal died on drive from Starry Arteel.

July 27/15 St. George

killed	Injured Returned out	killed	Injured Returned out
29	13	7	40
13	13	15	24
14	10	12	36
7	29	5	20
6	18	3	21
10	12	3	30
6	33	5	41
9	34	7	32
10	36	1	22
11	22	5	24
15	29	6	26
5	45	8	26
6	48	2	27
17	44	1	24
6	30	2	20
12	30	4	23
19	32	89	441
7	36		
10	17	total killed	total turned away
212	531	301	972

The killing was over at 9:40 A.M.

One female was found in the drive. (Authority Capt. Webster)

I saw four (4) undersized seals with bad sores on their sides.

Buckshot was taken from one. Did not see it taken out myself.

The actual no. killed was 278. ~~It~~ It was very hard to count those killed, as the fresh bunch was driven very close to the last one of ten overlapping. The numbers of those are not absolutely correct.

The weather this morning was cold and raining. It rained all through the killing.

The seals were very fresh and lively when brought up for killing, none tired out.

I only saw one large bull, he was evidently too small for a place on the rookeries, those bulls turned away were none over five years old.

The ~~bat~~ clubbing of the seals at a killing is cruel which is overlooked and is turned loose, is not practiced here as at St. Paul, as far as I have seen.

One obstinate little seal which would not go with the turned out was hit quite hard on the throat and then dragged away, he was al-

avoid him entirely, and seemed very weak for some little time afterward.

One undersized seal was had his nose broken by mistake the blood was pouring out of his nostrils, otherwise it did not affect him, he was turned loose.

Found the nest of Laplend longspur today only one young bird, no feathers.

July 23 1895.

I watched the bird cliffs east of the village counted dozen and other birds all seemed to have eggs I saw no young birds.

Yesterday saw a gull a little smaller than a medium fish hawk, it had a black head and

black tufts on the wings considerably larger than on the red-legs, also had some black on ends of secondaries.

July 23 — 1945 St George Id.
At 3:30 I arrived at Sea Lion rookery.

The sea lions are in such a mixed up fashion I can't distinguish one family from another.

In the rookery to the south of the point and about 300 yds from it, there are 98 sea lions of which about 22 are ~~females~~ bulls, the remainder are females and young.

At 3:50 an old bull sea-lion came up out of the water and immediately went

to sleep.

For ten minutes at a time
not one ~~of the~~ stirs, sometimes
two or three are sitting up.

I saw two shams fights
between bulls, a great deal of
grunting and grumbling was
all except a snap or two, neither
was hurt.

They dont seem to mind
the seals at all, several seals
picked their way carefully
among them until they reached
the water.

All were lying ~~rubbish~~ with
in a few yards of the high water
mark, it is now rising tide
and some are washed by the
waves.

At 4.05 one bull took

to the water and played around
a few yards from shore, just
like a seal. Turning over and
over, swimming on his back,
floating & drifting about
Out at the point I can
see a bull & a cow in the
surf.
A little seal pup strayed
up with in three feet of the
sea lions, its mother chased it
grabbed it by the hind flipper
and threw it ten feet back,
but the pup insisted in going
among the sea lions, it finally
got between two sleeping cows
but the pups mother went in
after and carried it from
between them and then tossed it
some feet away, when the

pup landed strolled over and got up but the mother was already up to it, so that it had to submit. It tried very hard to get between the sea lions.

I can see no very small sea lions some as small as a cow seal, and only two or three as small a a bull seal.

At 4.20 I saw two sea lion (looked like cows) swimming around looking for a place to land. They finally disappeared around the bluff.

It has been foggy all day and continues so.

I see one bull seal with one cow back from the water about 200 yds and fully 100 yds from any other seals, on perfectly green

Birds

R.R. — Gyrfalcon
Rodgers fulmar
Black throated diver

Eggs.

C. B. winter wren
gray cared finch
snow bunting
laplaind long spur

Birds

C.W.R. winter wren
gray cared finch
snow bunting
lap long spurs
turnstone
thick billed sandpiper
long tailed duck
Harlequin duck
Red faced cormorant
all petrels

Rodgers fulmar
Chikie
Pacific kittiwake
Redlegged "
Horned puffin
Parroquet auk
crested auk
least "
Arrie (guillemot)

grass with no bare places or rocks near.

A fox has been roaming about through the rookery for half an hour, apparently unnoticed by the seals (fur).

A bull seal (fur) landed and in going up the shingle ~~made~~ waked up a cow sealion which got mad and it looked for a few minutes as though there would be a fight, the bull seal did not seem to be afraid the faced each other and roared but it ended by the sealion moving a few feet and lying down. C

At 4:40 everything is quiet except for the fur seals. A bull sealion has taken to the

water. There are now playing near shore.

A five year old bull seal has just been chased among the sea lions by another bull, in his hurry to get out of his way, he stepped on the head of a cow sealion, which raised its head and then went to sleep again she did not seem to mind the interuption to her sleep.

At no place along the beach can I see a sea lion farther back from the water than (2 0) twenty yards.

Another sea lion disturbed by a seal, she did not resent it.

When a sea lion calls or rather grunts a noise very much like a that made by a hog

he shakes his head slowly up and down which interupts the noise and makes a series of grunts.

Those that are awake seem to have a good many vermin by the amount of scratching that is done.

When they moove it seems to take all their strength to go a few feet, I have not seen one move over ten feet since I have been here. They are very clumsy and all seem to be very fat.

Out at the point there is more life among the sea lions than here.

At 5 P.M. another sea lion went out into the water followed

a few minuts later by another.
I have seen nothing of the last five or six which have taken to the water, they have not hauled out yet.
The fur seal harems which are close to the water have not spread at all, those farther back have spread by them are no pups among them. They are not bachelors for fulls are guarding them as far as possible.
5:05 three seal lions one have come along shore and passed around the bluff to the right
I have seen only six (6) cow seals fresh from the sea, they were very light gray.
Up to 5:15 the harems of the cals have been very quiet

have seen no cows stolen from dharems.

Very few pups have been crying until now, now I can hear quite a number but can hear no answering cry of cows.

At 5:15 there were ~~fifteen~~ sea lions in the water just outside the rookery, one cow came ashore, leaving another cow and two bulls in the water.

Every thing was quiet in both rookeries, seal & sea lion when I left at 5:20

On the way back to the village I saw a flock of about fifty (50) auiplse with black breasts.

July 26/1895. St. George's Alaska
I visited the school here today, there were about 18 pupils all natives, very carelessly dressed, both boys & girls, two were very bright the rest were not shining stars. They can read quite well and could write. The children a very restless. All hate school.

At 10:15 I started for Tapadnie arrived there at 11 a little I.P.M.

There was no snow on the rookery although to the south west below the cliffs there was a great deal down to the waters edge.

The rookery seemed to be well filled, most of the harems had not scattered much, the place was quite lively with plenty of noise I could hear & smell them when I was two miles & the

Lee of Three.

Birds seen: —

1	Northern phalerope	1
2	Red "	—
3	Snipe (Black necked orange legs)	100
4	Guillemot	—
5	Horned puffin	2
6	(Black) "	1
7	Snow buntings	—
8	Lapland longspur	—
9	Least auk	—
10	Crested "	—
11	Parroquet "	—
12	Red legged kittiwake	—
13	Black " "	—
14	Gull (black head)	1
15	Pryfitof sandpiper	4

I also saw one lemming.

D.W.P. Jr

Horned Puffin.

July 31 1895 St. George Id. Alaska.
Sea lion rookery of East Pt.

Arrived here at 2:20 P.M. There is quite a heavy fog near the water but up on the hills it is bright + warm (about 52°)

The rookery is quite lively and noisy, sea lions are continually going out + coming in. There are about the same no. as when I was here before (100). about 20 sea lions are playing about in the water now.

There are hundreds of seals sporting near shore, they are going and coming all the time with out a break.

almost all the seal harems have two or more wet cows in them.

There is one sea lion harem by itself, one bull + 20 cows + pups.

Sea lions.

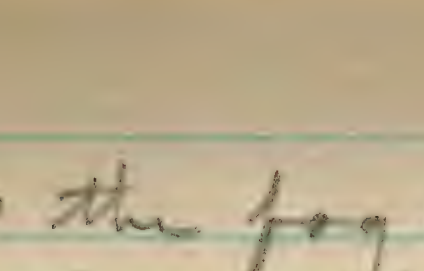
The proportion of females to cows in the seal harems is more than 5 : 1.

Cows are are all the time trying to break loose and get to the water the bulls have a hard time keeping them in subjection.

2:50 the fog has lifted and the sun is very hot.

All the cow seals are restless almost none are asleep. The water is literally black with seals for 200 & 300 yards out. I hear very few pups calling.

3: P.M. I left to hunt up Sea lion rookery at Garden Cove. Was unable to find the Rookery.



Spec. no. 30. [illegible] Aug 2 1895

dia. of eye (extreme)	1.5	inches
" of iris (max.)	1.1	"
" " " (min.)	[illegible].9	

Ketchikan Aug 5 1895

Station	Location.
1	Margin of cliff
2	50 ft back
3	100 ft "
4	150 "
5	same as (4) [in soil.] 200
6	250 ft.
~~7~~	
~~8~~	
7	edge of rookery
8	50 ft from "
9	100 ft "
10	150 ft.

Specimens of Rookery Soils.

Aug 5th is a cool, foggy day with slight wind from the S.E.
The rookeries are very quiet, nearly all the cows are asleep.
Pups were swimming in the tide lights, they played around for some time befor coming out. They were quite expert swimmers although the did not keep their head under water more than 30 seconds at a time.

Observe

Whether many breeding bulls are already on the rookeries & many or few trying to land –

How many bulls have cows & the maximum, minimum & average number of the latter

Whether any pups are born; how many in proportion to cows in any one harem. ×

Abundance or otherwise of bachelors on the hauling grounds –

How much snow is on the rookeries. –

Whether the bulls are fighting –

× Also how old the majority of pups are –

THE GRAND HOTEL, LIMITED,

Nos. 18, 19 & 20, Bund, Yokohama.

Steam Launch and Coolie hire for Luggage to S.S Gaelic		
	2	00

Mr. L Steppiger

Room No.

Aug 15 1895

Toledo - Bachelors at Meeth
9 200 ks. 80. Beyond on the
heads - Hill are 330 - Total
410.

Aug 13 1895

Buck seal Siskawit

Bay —

	9ft × 10/10
Total length to end of last flipper	9.
" " " " Tail	9.2
Breadth between outstretched flippers	6.3
Top of humerus to end of fore flipper	2.95
Breadth of fore flipper	2.0
" of fore flipper at base	0.65
Nose to head of humerus (wherein lay back)	2.8
Nose to eye	.4
" " ear	.8
" " angle of lips	.175
Length of mouth	.325
Girth at eyes (hair pressed)	1.55
" behind ear (")	2.25
Shoulder girth	5.3
Girth in front of hind flippers	2.0
Neck at base of hind flippers	3.1
Girth at head of tibia	3.4

Aug 13 1895

Blk. 5

Harbor Pt.

Sharks very moderate

Chronometer

Blk. 25

1894 - Aug 13

1895 " 24

Blk. 5

Harbor Pt.

Aug 13 1895

Buck seal Siskawit

Bay —

	9ft × 10/10
Total length to end of last flipper	9.
" " " " Tail	9.2
Breadth between outstretched flippers	6.3
Top of humerus to end of fore flipper	2.95
Breadth of fore flipper	2.0
" of fore flipper at base	0.65
Nose to head of humerus (wherein lay back)	2.8
Nose to eye	.4
" " ear	.8
" " angle of lips	.175
Length of mouth	.325
Girth at eyes (hair pressed)	1.55
" behind ear (")	2.25
Shoulder girth	5.3
Girth in front of hind flippers	2.0
Neck at base of hind flippers	3.1
Girth at head of tibia	3.4

H. L. Pl.

Sta 4.
Dates as before – Shows marked decrease throughout. No buds back of bracts.

Sta. 3.
Dates as before – Has withdrawn in 1895 from hillslope at North of plots.

Sta 2 (North.
Dates as before – Have drawn back a little at South but not else.

Sta 2 (South)
As before. – Not much to see but no apparent change –

Retake
Sta 13
1894 Jul 15
1895 Jul 20

Uncertain

Sta. 14
~~1894~~ Same dates
Shows a general decrease

Sta. 14 1/2
Same dates
Shows a general decrease

Sta 15
Same dates
Shows general decrease

Reef Sta 16
Same dates
Distant hill slope less occupied

Plavna
Sta 23-
Nokgord

Sta 21
1894 July 13
1895 " 26.

Shows decrease especially at right end.

Lukawa Sta 12
1894 July 15
1895 " 20

Does not show much clearly except decrease in foreground.

W. C. Pl.

Sta. 1.

Data as before. Decrease
+ squad at South gorge in 1895

Polarina	Sta 6
1894 -	July 26
1895 -	" 26

Shows great decrease everywhere
No seals back to the rocks
this year

Sta 24.

1894	July 13
1895	" 24

Not good for comparison

75